

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-002359**Date Inspected:** 23-Dec-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coating Inspection**Bridge No:** 34-0006**Component:** Office, OBG 7BW, OBG 8AE, Sub-Assemblies**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Office

Attend to report writing and sorting and organizing project documentation.

OBG 7BW

Performed a joint cursory inspection of internal and external undercoated surfaces with ABF Bill Oak.

Undercoated areas and areas where base metal was still visible which were previously pointed out to ZPMC QC for amendment and repairs had not been addressed and base metal areas/holidays require re-abrasive blasting as "rust back" of the base metal had occurred. Chevron Beam assemblies, FL-3 Beam, Ladder access for FL-3/Cross Beam and surrounding steel of the access perforation were some areas which were to be addressed. Bolt holes also exhibited bare steel.

OBG 8AW

Performed a joint cursory inspection of internal and external undercoated surfaces with ABF Bill Oak.

Undercoated areas and areas where base metal was still visible which were previously pointed out to ZPMC QC for amendment and repairs had not been addressed and base metal areas/holidays require re-abrasive blasting as "rust back" of the base metal had occurred. Chevron Beam assemblies, FL-3 Beam, Ladder access for FL-3/Cross Beam and surrounding steel of the access perforation were some areas which were to be addressed. This Segment is located inside Blasting workshop #1 and currently being undercoated.

Sub-Assemblies

SOURCE INSPECTION REPORT

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Base Metal surfaces of approximately 224 pieces of Wind Vortex Plates, Drip Edge Flat-stock, Shim Plates and Splice Plates were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 undercoat applied. Wind Vortex codes: GGL-MQ-256 and 24 pieces were undercoated.

Sub-Assemblies

North and South Tower Shafts Channel Iron were washed and de-greased in accordance with SSPC SP-1 in preparation of abrasive blasting operations. Edge conditioning was incomplete at this time and the bolt holes had not been de-burred when the Channel Iron was overturned to view the bottom sides.

Lift 1 West

Internal surfaces were in process of access scaffolding removal and cleaning operations in preparation of repairs for painting of damaged undercoated surfaces.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

Summary of Conversations:

Caltrans QA Lumley inquired with ABF QA Bill Oak as to repairs to exposed base metal surfaces/holidays on OBG 7BW. Mr.Oak stated they would require re-abrasive blasting as "Rustback" was observed.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang (858) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James	Quality Assurance Inspector
Reviewed By:	Peterson,Art	QA Reviewer
